Remote Monitoring & Notifications for Fixed Gas and Flame Detection

Connectivity is revolutionising our world.
Move to the next generation of fixed gas and flame detection systems.

Don't miss the opportunity to find enhanced solutions to everyday challenges now.

Expense reduction
Going on site is usually more complicated and expensive

Remote troubleshooting
Solving problems remotely is a competitive advantage

Improved maintenance
Simplify routine operations like calibration and maintenance

Data-driven insights
New tools enable you to gain valuable insights from historical and real-time data

SAFEGUARDING
PEOPLE, PLACES & THE **PLANET**

Remote Monitoring & Notifications for Fixed Gas and Flame Detection

Make the most of connected fixed gas and flame detectors and learn how you can improve your safety processes

Worksite Remote Monitoring & Notifications

Features	Benefits
Hazard awareness	Enhanced site safety with remotely visible gas readings, helping to minimize expensive process interruptions.
Calibration checks	Allows for trouble free and scheduled maintenance with clear indication of calibration status.
Detector status	Dashboard provides status overview with capability for quick preventive maintenance.

Asset Management & Performance

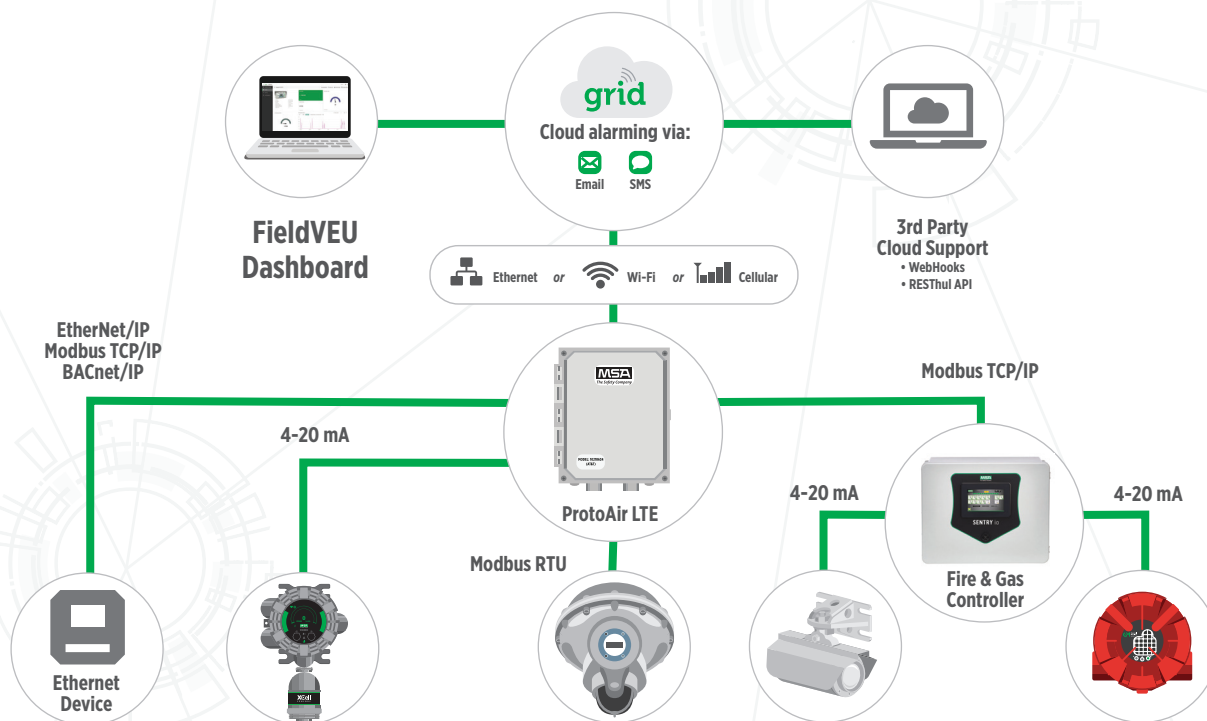| Features	Benefits
Interoperability	Supports remote monitoring for MSA detectors and controllers as well as third-party products/systems.
Pre-configured, native detector support	Gateway kit provides quick and easy integration with its pre-programmed support of MSA devices with signal connectivity via Modbus RTU & TCP/IP, BACnet/IP or 4-20mA.
Seamless interconnectivity	Easily connect fire and gas detection systems into your DCS/SCADA when required.

Compliance Insights & Management

Features	Benefits
Workflow improvements	Digitized critical safety data allows automated calibration tracking and enhances processes to increase safety and productivity.
Efficient compliance	Streamline inspections at a glance with calibration audits and functional verifications.

MSA connected infrastructure solution for gas and flame detection systems

Real-time awareness and enhanced support for field detectors, with actionable insights that help with increased long-term safety. Secure remote connectivity to your Fixed Gas and Flame Detection through MSA FieldServer IIoT gateways.
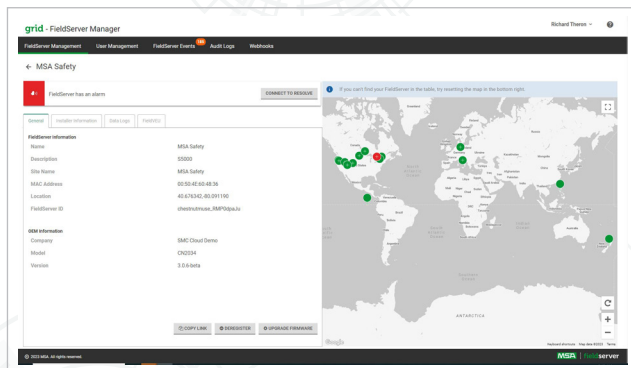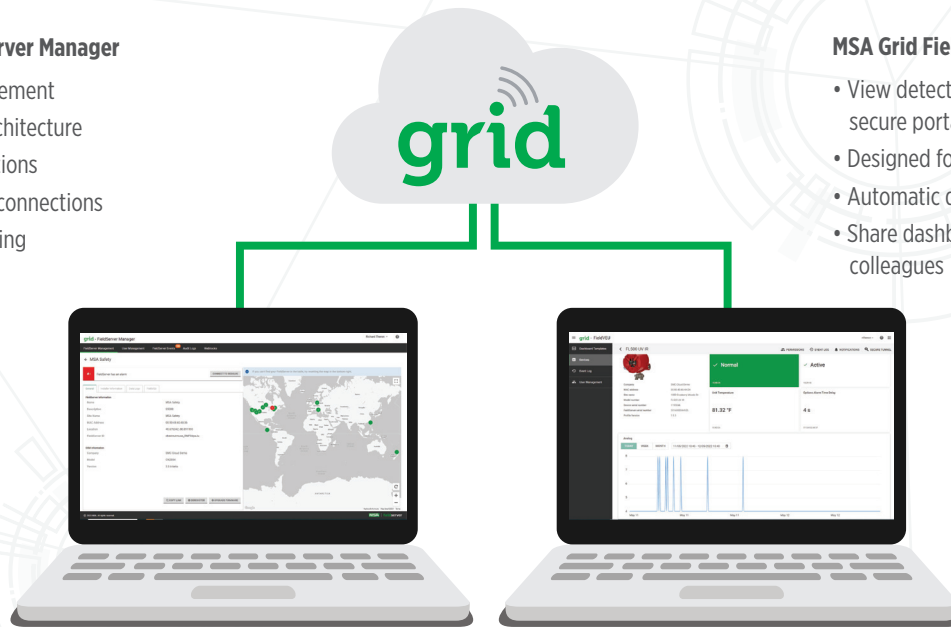
grid

Cloud alarming via:

Email   SMS

FieldVEU Dashboard

3rd Party Cloud Support
• WebHooks
• RESThul API

Ethernet *or* Wi-Fi *or* Cellular

EtherNet/IP Modbus TCP/IP BACnet/IP

4-20 mA

ProtoAir LTE

Modbus RTU

Modbus TCP/IP

4-20 mA

Fire & Gas Controller

4-20 mA

Ethernet Device

MSA Software-as-a-Service Cloud Solution

MSA Grid FieldServer Manager

- Gateway Management
- Tenant based architecture
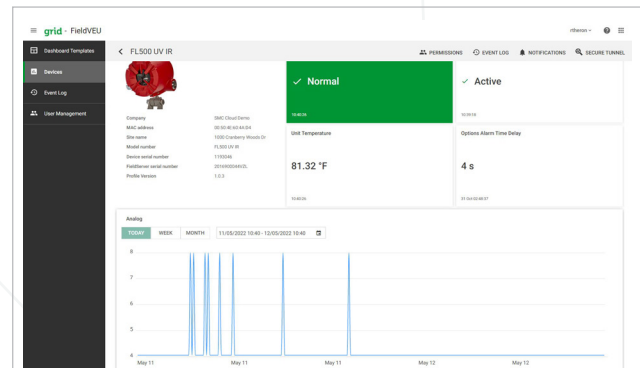- Remote notifications
- 3rd Party Cloud connections
- Remote monitoring

MSA Grid FieldVEU

- View detectors data through secure portal
- Designed for OEMs
- Automatic dashboard creation
- Share dashboards with colleagues

The MSA Grid cloud platform is built to facilitate growing customer demands.

- Deploy in weeks reducing OEM engineering development time and expense.
- Register gateways seamlessly through the FieldServer Manager cloud portal.
- Generate cloud-based notifications/alarms via SMS and/or emails for event when they occur.
- Create multiple user accounts within the tenant portal for secure management.
- Retrieve data and push it to the cloud for storage, including data transfer to 3rd party cloud services.
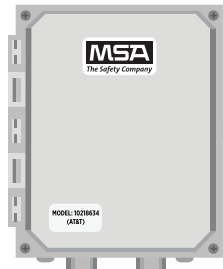
The MSA Grid - FieldVEU interfaces with the MSA Grid cloud platform for data visualization and notifications.

- Monitor equipment connected to the cloud through the MSA Grid secure portal.
- Retrieve data from the cloud for analysis.
- Each device dashboard can display detector data and allows users to setup unique alarms/notifications.
- Dashboards are based on templates, allowing for quick setup.
- Penetration reports are available to help ensure up-to-date cybersecurity standards.
- FieldVEU is scalable to mobile phones and tablets.

Enabling Devices — FieldServer Gateways

Each FieldServer Gateway is a pre-programmed easy-to-install kit,
supporting protocol output signals and/or protocols used by MSA Fixed Gas and Flame Detectors*

FieldServer ProtoNode	FieldServer ProtoAir	FieldServer ProtoAir (NEMA)
The FieldServer FGFD ProtoNode is an external, fully enclosed device to quickly provide a protocol conversion solution.	The FieldServer FGFD ProtoAir is a full-featured, cloud-connected, field-programmable, wireless gateway that enables protocol conversion through Wi-Fi and cellular communication with analog signal processing option as well.	
Available connectivity options		
• Serial - RS-232 & RS-485 • Ethernet	• Serial - RS-232 & RS-485 • Ethernet, Wi-Fi, Cellular	• Serial - RS-232 & RS-485 • Ethernet, Wi-Fi, Cellular • 4-20mA
FieldServer Gateways provide IIoT remote monitoring capabilities and are pre-configured with MSA's fixed gas and flame detection products to seamlessly enable cloud communications. Integrated MSA Grid support enables remote monitoring, control, cloud-based alarm notifications (SMS or email) for trouble or alarm conditions and data visualization through Grid dashboards.		

Field Devices — Fixed Gas and Flame Detectors/Controllers*

ULTIMA® X5000 Gas Monitor	General Monitors® FL500 Flame Detector	SENTRY io® Fire and Gas Detection Controller
The ULTIMA X5000 features XCell® gas sensors, also with TruCal® self-checking technology. Its multilingual, touch-screen OLED display is easy to read and navigate. A dual sensor option and universal board design lowers installation costs.	The FL500 Ultraviolet / Infrared detector delivers high-speed flame detection with an increased field of view and false alarm immunity. It provides reliable protection for hydrocarbon fires or hydrogen with a specific FL500-H2 model.	Monitor up to 16 detectors with the wall-mounted SENTRY io. The large touchscreen HMI supports intuitive operation with its SmartStart workflows. EZ-ID provides auto-recognition of HART-enabled MSA and General Monitors® detectors.
Available output options for Gateways connectivity		
• 4-20mA	• 4-20mA • Modbus RTU	• Modbus TCP/IP • Modbus RTU (optional)

* See HERE our full portfolio of Flame and Gas Detectors as well as Controllers

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit **MSAsafety.com/offices**.